



---

## OFFICE MEMORANDUM

---

**DATE:** November 9, 1999

**TO:** Region Engineers  
Region Associate Delivery Engineers  
Region Construction Engineers  
Resident/Project Engineers/TSC Managers

**FROM:** C. Thomas Maki  
Chief Operations Officer

Gary D. Taylor  
Chief Engineer/Deputy Director  
Bureau of Highway Technical Services

**SUBJECT:** Bureau of Highway Instructional Memorandum 1999-19  
1999 Fall Updates to the Construction and Technology  
Division's Procedures Manuals

The Construction Manual, Michigan Test Methods and Materials Quality Assurance Manual have been revised as indicated. Brief descriptions of the changes are presented here. All revisions will be sent to holders of the manuals through MDOT's Publications Office. These additions and revisions are made and implemented in accordance with the Construction and Technology Division's Guidance Document DL 401 - *Publication of Revisions to Division Manuals*.

Questions concerning these revisions may be directed to Judy Ruszkowski, Engineer of Specifications, at 517-322-5669. Information on obtaining these manuals, including all future revisions, should be directed to MDOT's Publications Office at 517-322-1676.

### Construction Manual

ADD Section 110 Programs Not Covered by the Standard Specifications - three topics added.

Engineer Certification Program - Incorporates into the manual, changes made and implemented by BOH-IM 1999-9, which was issued on May 18, 1999.

Railroad Projects - General program information and guidance on administering railroad projects.

List of Current Instructional Memoranda - Listing of current instructional memoranda issued as CIMs, CCLs and BOH-IMs.

### Michigan Test Methods

REV MTM 108 Fines by Washing - Detail added to the test procedure to describe modification of ASTM C117.

- ADD MTM 124 Determining Aggregate Durability by Unconfined Freezing and Thawing - New test procedure for determining the durability of unconfined aggregate by rapid freezing and thawing.
- REV MTM 319 AC Content by Ignition Method - Revised test report form.
- ADD MTM 324 Sampling Bituminous Material from Behind the Laydown Machine - New sampling method for collecting bituminous mixture from off the grade prior to compaction.
- DEL MTM 701 Testing Battery Operated Flashers - Method obsolete.
- DEL MTM 702 Testing Reflective Sheeting - Method obsolete.
- DEL MTM 703 Testing Reflective Buttons - Method obsolete.
- REV MTM 713 Sampling Timber GR Posts, Blocks and Sign Posts - Sample size and method of selection has been revised.
- REV MTM 716 Inspection and Pull Testing of Temp Concrete Barrier Loops - Clarified sampling frequency and corrected standard plan reference.
- ADD MTM 724 Smooth Wall Coilable PE Conduit and Pipe - New test method for materials being used for electrical conduit.
- ADD MTM 725 Determining Ride Quality Using a California Type Profilograph - New method describing the field data collection using the profilograph.
- ADD MTM 726 Determining Ride Quality Using a GM Type Rapid Travel Profilometer - New method describing field data collection using the profilometer.
- ADD MTM 727 Manual Analysis of California Type Profilograms

#### Materials Quality Assurance Procedures Manual

- ADD Section A12 Random Sampling Guidelines for QC/QA Projects - Update to the 1995 random sampling guide.
- REV Section B1 General Tested Stock Procedure - Revised to allow the submittal of facsimile or photocopies of reports.
- REV Section C7 Asphalt Binder - Revision of the asphalt binder certification program.
- REV Section E Independent Assurance Test Procedures - Incorporates into the manual, changes made and implemented by BOH-IM 1999-5 which was issued on April 13, 1999. IAT programs for density, concrete, aggregates and bituminous mixtures have all been combined to eliminate duplicate information.

- REV F703.03A (QPL) Prepackaged Hydraulic Fast-Set Materials for Patching Structural Concrete - Limit placed on coarse aggregate extension of the mixture for testing.
- REV F712.031 (QPL) Adhesive Systems for Structural Anchors and Lane Ties - Expanded to include various structural adhesive systems. Name changed to reflect this change.
- REV F715.02 (QPL) Low Dust Abrasives - Clarification of allowable free silica content.
- ADD F904.03 (QPL) Protective Polymer Coating for Bituminous Pavement at Snowmobile Trail Crossings - Establishes a new qualified products evaluation procedure.

---

Chief Operations Officer

---

Chief Engineer/Deputy Director  
Bureau of Highway Technical Services

BOHTS:C&T:JAR:kab

Subject Index: Procedures Manuals

cc: C&T Division Engineers	MAPA
C&T Division Technicians	MCPA
Real Estate, M. Frierson	MCA
Design Division, P. Miller	MAA
Maintenance Division, C. Roberts	AUC
Traffic & Safety, J. O'Doherty	CRAM
OEO - A. Suber	MRPA
T. Maki	J. Culp
G. Taylor	S. Cook
J. Klee	R. Endres
S. Kulkarni	T. Hynes
J. Reincke	G. Mayes
R. Knapp	P. O'Rourke
J. Ruszkowski	D. Smiley
V. Blaxton	J. Staton
B. Jay	R. Till
K. Trentham	B. MacNall
MRBA	